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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------|--|----------------------|---------------------|-------------------------|--|
| 10/649,938 | 10/649,938 08/27/2003 Dat | | 1171/39464A/99A- | 6085 | |
| 279 | 7590 09/21/2006 | | EXAMINER | | |
| | R, BUSHNELL, GIANG | PATEL, NIHIR B | | | |
| | BLACKSTONE & MARR, LTD. 105 WEST ADAMS STREET SUITE 3600 CHICAGO, IL 60603 | | | PAPER NUMBER | |
| | | | | 3743 | |
| CHICAGO | | | | DATE MAILED: 09/21/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|--|--|---|--|--|--|
| | Application No. | Applicant(s) | | | |
| | 10/649,938 | SMITH ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Nihir Patel | 3743 | | | |
| The MAILING DATE of this communication app Period for Reply | pears on the cover sheet with the | correspondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE | N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on 07.14 | <u>4.2006</u> . | | | | |
| 2a) This action is FINAL . 2b) ☐ This | This action is FINAL . 2b)⊠ This action is non-final. | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under E | Ex parte Quayle, 1935 C.D. 11, 4 | 53 O.G. 213. | | | |
| Disposition of Claims | | | | | |
| 4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3,5 and 6 is/are rejected. 7) ☐ Claim(s) 2,4 and 7-10 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o | wn from consideration. | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | |
| 11) The oath or declaration is objected to by the Ex | kaminer. Note the attached Office | e Action or form PTO-152. | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list | is have been received. Is have been received in Applicate It documents have been received in Applicate the comments in the com | ion No ed in this National Stage | | | |
| Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 08.18.2006. | 4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 0 6) Other: | Date | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3, 5 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Kirkpatrick (US 3,677,329).
- 3. As to claim 1, Kirkpatrick teaches an annular heat pipe that includes an inlet, an outlet, an enclosing wall defining a gases passageway between the inlet and outlet, at least a region of the enclosing wall being of a material that allows the passage of water vapor without allowing the passage of liquid water or respiratory gases, and a heating means located within the limb, the heating means comprising an elongate heating element (see figures 1 and 3).
- 4. As to claim 3, Kirkpatrick teaches an apparatus wherein the heating means lies freely in the limb to settle over at least some of its length at low points in the limb where condensed water vapor may collect (see figures 1 and 3).
- 5. As to claims 5 and 6, Kirkpatrick teaches an apparatus that includes an inner conduit having an inlet, outlet and enclosing wall; an outer conduit having a second inlet, outlet, the inner conduit located within the outer conduit, the inlet of the inner conduit and the second outlet of the outer conduit being located at a first end of the limb, and the outlet of the inner conduit and the second inlet of the outer conduit being located at a second end of the limb, and the

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heating means is located in a space between the inner conduit and the outer conduit (see figures

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1 and 3).

Allowable Subject Matter

6. Claims 2, 4 and 7-10 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nihir Patel whose telephone number is (571) 272-4803. The

examiner can normally be reached on 7:30 to 4:30 every other Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Bennett can be reached on (571) 272-4791. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nihir Patel

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Group 3700